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Dowling, E. D.; Lash, P. L.

Statistical Table Analysis (200) Successful GED

Students.

INSTITUTION

Illinois State Office of the Superintendent of Public Instruction, Springfield. Dept. of Adult Education.;

Office of Education (DHEW), Washington, D.C.

NOTE

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EDRS' PRICE DESCRIPTORS Adult Education: Adult Students: Age: Arithmetic: Comparative Statistics: *Correlation: Educational * Certificates: *Equivalency Tests: Language Ability: Participant Characteristics; Reading Ability;

*Student Characteristics: *Success Factors: Tables

(Data): Welfare Recipients

ABSTRACT

The purpose of the study was to determine what factors affect success in passing the General Education Development (GED) exam. Using data gathered between 1960 and 1972 from 200 successful GED students at the Mattoon Area Adult Education Center, Ill., the authors developed frequency distribution charts to characterize the students and scattergrams to reveal correlations among: age, hours spent in GED classes, GED scores, arithmetic, computation; Stanford Arithmetic Reasoning scores, and language usage. The population was primarily midwestern, rural, and white and was classified as public aid recipient or non-public aid trainee. Findings indicated that age is not relevant to GED success, and there were high correlations between language usage and reading, reading and arithmetic reasoning, and reading and arithmetic computation.

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ILLINOIS OFFICE OF THE SUPERINTENDENT OF PUBLIC INSTRUCTION (Division of Adult Education) In cooperation with . UNITED STATES OFFICE OF EDUCATION (Region V Staff Development Committee) High School Equivalency (GED) ' Research Project E.D. DOWLING P.L. LASH

E11400_ER

STATISTICAL TABLE ANALYSIS
(200)

SUCCESSFUL GED STUDENTS

Cooperating Agencies

MATTOON AREA ADULT EDUCATION CENTER
MATTOON COMMUNITY SCHOOL DIST. #2
ILLINOIS DEPARTMENT OF PUBLIC AID

Intended for in-service training of Adult Education programs for use in staff development with teachers and counselors.

ABOUT THE AUTHORS:

Mrs. Patricia Lash and Mr. Ed Dowling have each had extremely diverse experiences in their respective areas of specialization in adult education, Mrs. Lash primarily as a teacher in the General Education Developmental (GED) program and Mr. Dowling as a counselor and administrator. They have worked with adult students representing all walks of life from the Public Aid recipient in basic education to the college graduate who is attending for enrichment purposes.

Mrs. Lash is completing her eighth year as GED instructor, in the full-time day program of the Mattoon Center in a self-contained, comprehensive one room operation. She has also taught for five years in the evening program with specialization in the areas of English and math. She is well versed in the use of both hardware and software and has used the learning center extensively as a supplement to her teaching.

She has also taken leading roles as both an organizer and participant in a variety of workshops, institutes and in-service training programs at the Federal, State, and local levels.

She was selected as "Teacher of the Year" for the 1972-73 school year by the Public Adult & Continuing Educators Association of Illinois (PACE).

Mrs. Lash holds her BS degree from Indiana State University in Terre Haute, Indiana and her MS Ed. in Guidance and Counseling from Eastern Illinois University, Charleston, Illinois. She has also completed work on the "Specialist in Guidance" at Eastern Illinois.

Mr. Dowling is completing his sixth year as counselor and admissions officer at the Mattoon Center and has served as Director of the Eyening Program for three years. In addition, he has periodically assumed additional duties as "acting" director of the day program. He also taught one semester of mathmetics at the GED level in the evening program.

He is extremely interested in, and talented in, research in adult ed cation and has compiled several studies that have been utilized throughout the network of adult education programs in Illinois.

Mr. Dowling was selected as "Young Educator of the Year" by the Mattoon, Illinois, Jaycees for the 1971-72 school year.

He, too, like Mrs. Lash, has been quite active both as an organizer and participant in workshops, institutes and in-service training programs at the Federal, State, and local levels.

Mr. Dowling earned his BS and MS Ed. in Guidance and Counseling from Eastern Illinois University, Charleston, Illinois, and has also earned the "Specialist In Guidance" from the same University.

· II. A. Sherline, Director Mattoon Area Adult Education Center

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INTRODUCTION

The prime purpose of this study was to determine what factors are relevant or irrelevant for passing the General Education Development (GED) exam. It was also initiated to assist the authors and others who may be interested in determining what factors play an important role in helping the adult education student. An attempt is made here to determine what factors are directly or indirectly related. If there appears to be no correlation between factors, one will assume the factors have little bearing on success. In such cases we may dispel old beliefs which is in itself positive information.

The following data have been gathered over the past four years from 1960 to 1972 on 200 successful GED students. In many instances there was information missing and as a result sub-totals will not add to totals.

In the enclosed sample the reader will find predominant midwestern, rural, white students. These students have attended in either the day or the night program at MAAEC and they may be classified as either Public Aid recipients or non-Public Aid trainees.

These students were enrolled in the Mattoon Area Adult Education Center in Mattoon, Illinois. This school is located in east-central Illinois approximately 200 miles south of Chicago, 150 miles east of St. Louis, and 150 miles west of Indianapolis. All students within this program of study were enrolled in self-contained classrooms without departmentalization. A Learning Center was continually available to students and it was used individually and for groups of students' individual needs.

To research the project frequency charts were developed. Also an attempt to develop inter-correlations between sub-topics. Our purpose is to seek out correlations based on sub-topic information and to use this information to further our understanding of students needs required in passing the GED exam.

Frequency distribution charts and scattergrams are provided to allow visual plus mathematical representation of the results. Totals are given by categories as well as by sub-classification totals in order to illustrate comparisons between sexes and student classifications. Obviously, the sub-classifications will not provide the accuracy of totals, but they do allow comparative tendencies.

As one reviews the enclosed frequency distribution charts, he or she should note the peaks and valleys as they relate to the various classifications such as age, sex, grade scores, etc. Also a reader might well think of various frequency charts as they inter-relate to one another.

Since we as adult educators do not have many answers to cause and effect relationships, these charts and graphs were developed. It would be well for each reader to speculate as to these relationships.

The data contained within this handbook consists of:

- 1. Student # (names were removed to conceal student's identity)
- 2. Classification (PA Public Aid) (N-PA Non-Public Aid)
- 3. Sex
- 4. Age of student entering the program
- 5. Last grade of public school completed by student upon entering program
- 6. Initial SRA Reading Raw Scores
- 7. Initial Paragraph Meaning Raw Scores on the Stanford Achievement Test Advanced battery Forms W & Y (Grade scores are interpolations between the two batteries)
- 8. Initial Arithmetic Computation Raw Scores on the Stanford Achievement Test Advanced battery Forms W & Y (Grade scores interpolated as in #7)
- 9. Initial Arithmetic Application Raw Scores (listed as Reasoning) on the Stanford Achievement Test Advanced battery Forms W & Y (Grade scores interpolated as in #7)
- *10. Standard scores achieved by students passing the GED exam
- 11. Number of hours spent in classroom by students prior to passing GED exam
- 12. Initial Language Usage Ray Scores (same batteries & methods as in #7 above)
 - These scores are taken from several different forms of the GED exam and not one specific form.

Patricia Lash Instructor Edward Dowling Counselor

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. 30		N-PA	F	29	9	83	57	. 34	,23	255	144
*31.°	•	N-PA	F.	. 40	9	73	30	16	16	.226	74
32	•	N-PA	F	23	10	***	i 31 '	, 16	20	257	18
33	• 🚁	N-PA	F	. 30	~10.	77	23	37	17	230	32
34	٧.	· N-PA	F	24	10		^39	14	15	. 227	38
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36	-	N-PA	F	60	9	77	18	5	24	228	332.
37		N-PA	M	40	8		47	20	21	243	36
38	•	N-PA,	F,	. 38	11	80	-	23	16	271	32
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41		N∙PA	M	19	10	80	43	31	28	235	16
42		PA ,	F	30	10	, 73	38	26	.14	226	120
43		N-PA	F	, 27	10	76	38	10	15	236	16
44		N-PA	F	29	10	. ••	44	20 ,	-19	255 -	44 ,
45		N-PA	F	,21	11	· ••	17	16	21	225	42
46	. •	N-PA	F	. 23	9	82 .	, ⁴ 42	22 ·	21	252	28
47.	•	· N-PA	M	71	8	`86		22	22	296	, 28
· 48	•	N-PA	M	42	10	•••	47	10	19	236	16
49	,	PA	F	19	11	. 74	39	31	26	.227	, 68
50		N-PA	F	36	. 8	82	29 -	19	23	253	20
51'		N-PA	M	39	, 8	80 -	41 4	·26	25	2 é 1	,22 .
, 52		, PA	M	. 18	10	. / 71	45	24 .	12 .	, 226	142
53	1	, N-PA	М	27	11-	* ·	40	18 ,	24	• 257	50
√ √54	Ę	N-PA	F	35	8	66 ,		18	. 6 .	231	80
55	•	PA	·F	20		85	56	32	22 .	295 ,	42
56		PA	F	47	. 11	64	28	5	16	. 230	` 178 '
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61	№РЛ	F.	30	,11	87	30	29	. 9	267	., 40
62	PA	F	34	11	77	18	ļ8	17	226	104
63 ွ	H≟PΛ	F ·	53	8	80		16	16	260	20
64	N-РА	F	40	ù	84	51	16	15	277	108
65	N-Р Л	F	33	8	,	41	24	16	285	20 🔭
. 66	N-PA	M	40`	9	83	36	21	20	242	54
67	N-PA	F	38	8	78	47 .	14	. 21	248	372
68	N-PA	F	30	10	83	40	22	13	247	40.
169	N-PA	F	42 •	. 9	71		. 18	11	227	26
70	11-PA	F	. 43	10	76	50	27	· 16	230	108
71	N-PA	n ·	21	8	81	44	20	<u>,</u> 17	237	* 28 [*]
72	N-PΛ	F	47	8	65 [°]	10	, 9	10	. 225	72
73 ?	N-PΛ	F	32	10	69 ,	30	7	11	[°] 226	34
74	и-РА	М	36	8 .	′ 79	51	17	26	225	. 28
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79	N-PA	F	27	, 9	. 70	. 14	24 •	13	225	36 '.
80,	N-PA	F	35	11	81 ,	45 ·	ុ 10 ្ង	12 (بمبر	237	38 ,
81	PA	F	30	9	83	27	35	19	233	. 142
82	N-PA	F	29,	11	70	^	19	. 21	238	32
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84 ,	N-PA	. P	38	8	54	30	. 11	10	226	52
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90 ,	. N-PA	F	49	10 *	73	30	1.4	10	237	56
, 91	N-PA	М.,	25	10	82.	50	20	19	291	24
92	PA.	F	24	. , 9	78	40	12	,16	- 225	126
93	N-PA	F	30		79 ·	`37	10	19	246	44 ,
94	PA. °	F	. 22	11 ,		40	22	17	1234	116 🚬
_ 95	N-PA	F	53	10	. 67	2 դ	18	5	226	222
. 96	N-PA	M	57	8	76	18	10	16	228	. 66
97	N-PA	F	41	· 9	ຶ 84 .	39	23	20	257	.26
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101	N-PA	'M.	46	10	. 80 ,	36	17	24	239 🍣	48
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106	, a PA	F	34	10'-	. , 75 *	'31	`7	8	227	146
107	PA	F .	, 23 (-	, 5	/82	56	*27	21,	282	136
108	N-PA	F	5 1	10		43	,4 1 5	20	272	34
109	N-PA	F.	[,] 17	10	7.2	30	17	17	231	170
110	N∹PA	F	28	8	68 *		11	8.	225	156
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; 112 '	N-PA	F.	34	. 9		33	20	23	226.	" 44 "
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118	4	H-PA	F	37	10 '	78	31	21	11	245 🕠	40	· + '
119		N-PA	F	34	11	e 		`		 ,	,	. .
120		PA	F	22	10	. 81	52	26	17	248	48	,
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122*,		H−PA	F	°30	10	80	••	17	18.	270	* ?	٠.
123		N-PA	. F	29	11	78	40	13 ~	14	236	78	
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125	1	PΛ	F	27	9 ~ (78	24	,·16	17	238	62	
, 175		, Ρ Λ	F	21	10	_1	43	16	17 ,	249	. 52	
127	,,	РΛ	, F	. 23	10	. 36	30	20	14	228	. 156	
128	,	N-PA	F	32	9	76		12	7	229	: 22	٠
129	j*	N-PA	F	22	11'		35	13	18	231	20	
130	, ,	N-PA	· F	33	9	78	46	6	14	228	26	
131	·	11-PA	М	38	9		43	25	21	258	6	•
. 132	ŕ	N-PA	F	38	8 ,	69	28	14	6	226	34	
133		N-PA	11	19	10	78		18	16	251	4	
134		⋊ - РΛ	F	60	8	74	36	9	12,	237	; 68	
, 135	•	n−₽ν	F	22	10	82	·	21	- 22	256 .	12	
136	•	• N-PA	F	Śo.	8	82	43	22	25	274	50	
137	•	РΛ	F	27	. ,9	72	28	33	25	225	76	
138	•	PA.	F	[*] 51	8	65 ·	32	27	14	226 ,	, 610	
139	•	:1-PA	, м	18	9.	83	7	35	25	275	8	
140	•	11 - PA	, M	25	ri	69 4	24	6	7	226	52	
141		:I-PA	F	44	. 8	71	. 22	20	19	225	52	•
142		11 - PA	м	44	8.		- · 40	19	, 23	242	36	
143	•	PA	F	37	11 (, 76	33	211	17 .	227	212	۵
144	•	H-₽A	F	19	9		49	. 24	17	260	34	
145	-	N-PA	и	20	10	**	.37	23	. 16	226	4	r
ERIC		_) E		•	-7-		•			ŀ	.4

	Class	Sex	Age	Gr. Comp.	SRA *	Para. Mean.	Ari.	Ari. Reas.	GED	Hrs.
146	N-PA	ŕ	39	11	82,	53	2,6	28	281	18
147	PA	뚜	32	. 8	63		14	11	226	248 .
148	N-PA	M	47		- 71	~~	#1	24	244	* 8.
149	N-PA	M.	. 22	70	80	29	23 [.]	24	227 -	44
150	N-PA	·F	21	10	78	27	· _/ 29	23	235	6Ò ·
151	N-PA	M	· 36	10	83		21	17	228	10
152	N-PA	F	· 21	10	. 77	34	20	14	225	104 .
153	N-PA	F	41	11	85	٠50	20	19	· 275	72
154	, PA	F	19	11 °,	 75	41	18	16	235	84
155 .	N-PA	, F	20	» 10	88	50	17	25	266	20
156	N-PA	F	45	9	70	21	11	` 10	226	60
157	Pλ	F	. 21	9	68	39	24	11	225	246
158	N-PA	F	42	10	87	` 54	25	24	278	, 38
159	, PA	F	25	9	84 ′	43	13	18	254	86
160	N-PA	F	38	11	,	30	18	10	225	18
161	N+PA	F	36			45	13	14	234	42
162	N-PA	F	21	9	88	••	35	،20 ر	287	26
163	N-PA	F	38	10	83	32	17	16	229	24 :
164	N-PA	r ·	24	11		, 37	18	8	244	52
165	N-PA	F,	33	9	80	49	19	18	252	60
166	PA	F	24	9	85	49	26	22	246	74
167	N-PA	F	32	9		23	`11	13	226	42
168	N-PA	F	40	11	· •• '	46	`14	14	251	32
169	N-PA	F .	49,	10	93		24	25	302 ¹ ,	, 8
170	PA	' F	28	8	87.	· 54	24	21	290	36
<u> 171</u>	N-PA	, M	23	9	79	48	18	20 °	226	217
172	PA	F	29	9	74	45	17	21	225	`288
173	PA	F	22	10	83	42	26	15	241	~78 ·
ERIC.	N-PA	M	42	8	-8-	38	31	28 .	231 14	40 '

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, 	Class	Sex ·	-Age	Gr. Comp.	SRA	Para. Mean.	Ari. Comp.	Ari. Reas.	GED	Hrs.
175	N-PA	F	25	.10	80)	41	17	17	261	52
176	N-PA	F.	34	10	. 79	45 * '	21	12	226	44
177	PA .	F	31	11	85	5 8	39	27 :	293	. 26
178	Pλ	F	20 ်	· 11	81	40	27	21	234	66
179 🚬	N-PA.	, H _	23	10/	81	53	21	21	273	38
180	» N-Р А	М	27	3	. 78	33	5	10	226	,52 ,
181	11-PA	, M	53	10	. 79	38	26	. 20	243	9,2
182	РΛ	F	51/	8	70	1.7	20 .	10	227	₂ 412
183	• п-ьу	F	58	[*] 11	72	30	9	10	226	24
:184	и-РА	F	_s 25	. 11	83	42	36	27	311	32 _.
185	ı n-PA	М	19	10	73	39	12	9 (226	76
186	4 N-PA	F	28	3.9	83	` 52	35	25	286	30
187 _	N-PA	F	19	10	' 68	,· 32	10	15	225	162
188. ",	и-ра	F	. 43	11	, 86	44	´ 15	18	259	6 -
189 ,	II-PA	F	•50	9	- · · · · · · · · · · · · · · · · · · ·	24	7	14	226	42
190	, N-PA	* M	31	9	* 74	31	12	15	227	54
191	N-PA	F	36	8	· 69	'	1	6	233	72 ,
192	. РА 🔻	F	23	, 6	70	35	23	9,	226	158
, 193	N − PA	F	32	8	68	20	15	16	228	,68
194	N-PA	F	. 44	8)\	32	12	14	232	42 '
195	N-PA	M	49	8	**	18	11	16	229	44
196	н-РА	+ F	. 50	8	78	`	6.	13	241	58
- 197	H-PA	F	23	10		59	26	20	313	40
198	N-PA	F	55	10	82	48	23	15	246	40
ئىر 199	N-PA	F	. 33	8	81	37	12	17	234	36
200	Ρλ	F	29	10	86	57	23	24	271	52
201	п-ра	М	44	8	. 84	42	19	23	269	176
, 202 ,	ti−P.	F	[*] 39	,9	73		25	24	258	* 30
					-					

Age Tables

The following page is an age frequency distribution table based on the described study group. The left hand column represents the age range from 15 to 71, and it is divided into age units of 3. The right hand column indicates the frequency of students by age category. A histogram is then formed to provide a visual explanation. The total number of students in the study is found at the bottom of the frequency column.

The succeeding four tables are a breakdown of the initial table based on males, females, Public Aid students, and Non-Public Aid students.

8,

	•	Age Table	
)	•		Fr
	69 - 71	9	. 1
	66 - 68		
	, 63¥= 65		
o	60 - 62		2
	57 - 59		2
	54 - 56	•	1
	51 - 53		8
٠.	48 - 50		8
	45 - 47		10
	42 - 44		14
	39 - 41		13
•	36 - 38		18
	.33 - 35		16
ļ	30 - 32		20 .
	27 - 29		, 24
	24 - 26		. 11
	21 - 23		, 31
-	18 - 20	•	22
	15 - 17		201

-11-

'	Age Table (Ma	le)		-
	•	Q.	, w _o	٠,
69 - 71	•			3
66 - 68	• •			, .•
		•	^ _^ .	
63 - 65	· ·	,	ţŧ*	, y
		•	٠	Ť .
60 - 62		*	5.	•
57 - 59			•	
		♥ .	· (•
54 - 56		• ,	٠	• •
:51 - 53	•		à.	•
48 - 50	_			•
•	•			**
45 - 47	· - •	•		
40 44		•		
42 - 44	•	,		-
39 - 41				
-		•	3,	
36 - 38	,	•		
33 - 35	,			
,		* •		e e
30 - 32		*		****
.aa.				
27 - 29	· • • • • • • • • • • • • • • • • • • •		•	
24 - 26		,		,
	у.	٠ ۽		-
21 - 23		٦		• '
18 - 20				
70 - 20	,	- '•		
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•	Ž.	` .		
•	٠,	Age Table (Female)	\ ,	
	•	,		Fr
		,	•	_
69 71	•	•		_
•	-	•		
.66 - 68		(•	-
		,	,	
63 - 65		• •	. '	•-
		·	q	•
60 - 62				2
• •		•	•	
57 - 59			•	1
3, - 03	\ o	•		
			•	1
54 - 56	•	,		• •
·		1	• •	
51 - 53			, ,	· 7
		•	•	
48 - 50				5
· · · ·				
45 - 47	-			, 8
•				
42 - 44		• ***	ń	· '8 ·
42 - 44	*	•		
	•	•	•	. 9
39 - 41			,	. 3
ماسية				*
36 🜤 38	*	,		13
♣ 33 - 35	•	9	• 14	16
	. ,		7.8	
30 - 32	·		,	18
	·	¢		•
27 - 29		₩ _a N	•	22
24 - 26		4	•	. 8
24 - 26	·	•	•	
	•			
21 - 23	r		• ` a	22
		•	. •	1.4
18 - 20	ч			14
•		grand and		
15 - 17	*	ē.	,	_1
	,	•	•	154

		*
AGG-	Table	(PA

69 - 71

66 - 68

63 - 65

60 - 62

57 - 59

54 - 56

Š1 **-** 53

48 - 50

45 '- 47

42 - 44

39 - 41

36 - 38

33 - 35

30 - 32

27 - 29

24 - 26

21 - 23

18 - 20

15 - 17

-

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3

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Age Table Non-Public Aid

69 - 71

66 - 68

63 - 65

60 - 62

57 - 59

51 - 53

48 - 50

45 - 47

36 **-** 38

133 - 35,

30 - 32

27 - 29

24 - 26

21 - 23

15 - 17

14 📆

12

15

13

·15 ·

16

7

20

14

154

. 21.

Grade Tables

The following table is a grade frequency distribution table based on the described study group. The left hand column represents the grade range from 8 through 11 and it is divided by grade level. The right hand column indicates the frequency of students by grade. A histogram is then formed to provide a visual explanation. The total number of students in the study is found at the bottom of the frequency column.

The succeeding four tables are a breakdown of the initial table based on males, females, Public Aid students and Non-Public Aid students.

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Grade Table

Fr

11

10

63

44

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Grade Table (Male)

Grade Table (Female) 34 11 10 $\frac{33}{151}$

Grade Table (PA)

Fr

Grade Table (Non-Public Aid)

Fr

11.

10.

49

31

44

151

SRA Tables

The following table is an SRA Raw Score frequency distribution table based on the described study group. The left hand column represents the Raw Score range of the SRA - RFU placement test and is divided into scores of three per unit. The right hand column indicates the frequency of students per category. The total number of students in the study is found at the bottom of the frequency column.

The succeeding four tables are a breakdown of the initial table based on males, females, Public Aid students and Non-Public Aid students.



SRA Table

	, , , , , , , , , , , , , , , , , , , ,	•	Fr
91 - 93		•	1
88 - 90			3
85 - 87		-	15
82 - 84	· · · · · · · · · · · · · · · · · · ·		27
79 - 81		-	31
76 - 7 8			27 `
73 - 75		,	20
70 - 72		,	15
67 - 69		•	12
64 - 66			. 5
61 - 63	,	•	2 '
58 - 60			
55 - 57	·		-
52 - 54	•		1
.49 - 51			. –
46 - 48			
- 43 - 45	_	,	- ,
40 - 42	• 		1
37 - 39	4	,	4

-23-

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 $\frac{1}{161}$

•	SRA Table (Male)	Fr
91 - 93		· _
88 - 90		•
85 - 87		1,
82 - 84	•	7
79 - 81	•	13
76 - 78		5 ·
73 - 75		4
70 - 72		3
67 - 69		1
64 - 66		-
61 - 63		, 1
58 - 60	,	. •
55 - 57		-
52 - 54		·, •
49 - 51		-
46 - 48	** · · · · · · · · · · · · · · · · · ·	-
43 - 45	•	-
40 - 42	*	1
37 - 39		-
34 - 36		-

-24-

SRA Table (Female)

91 - 93

88 - 90

85 - 87

82 **-** 84

- 79 **-** 81

76 - 78

73 - 75

70 - 72

67 - 69

64 - 66

61 - 63

58 - 60

55 - 57

52 - 54

49 - 51

46 - 48

43 - 45

> 40 **-** 42

37 - 39

34 - 30

31

119

Fr

3

18

22

15

13

1,

	SRA Table (PA)	
	•	Fr
91- 93		
88 - 90		• 1
85 - 87		7
, and an an		7
8 2 - 84		•
79 + 81		, 5
•	and the second s	>
76 - 78		5
73 ⁴ - 75		8
/3 - /2	·	* *****
70 - 72		4
	- · · · · · · · · · · · · · · · · · · ·	
67 - 69		. 3
		3
64 - 66	• • • • • • • • • • • • • • • • • • •	
61 - 63		- 1
58 - 60	, and a second s	. -
EE E7		_
55 - 57		
52 - 54		
32 - 34		•
49 - 51		-

(Non-Public Aid) SRA Table

Fr

1

8

20

26

22

12

11

33

88 - 90

. .

85' - 87

82 - 84

79 - 81

76 - 78

73 - 75

70 - 72

67 - 69

64 - 66

61 - 63

58 - 60

55 - 57

52 - 54

49 - 51

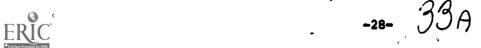
46 - 48

40 - 42

Paragraph Meaning Table

The following table is formulated on the raw scores of the Paragraph Meaning section (Stanford Achievement Test - Advanced Complete Battery - Forms W & Y) based on the described study group. The left hand column represents the raw score and the center column includes interpolated grade equivalency scores. The right hand column indicates the frequency of students per category with the total number of students found at the bottom of the frequency column.

The succeeding four tables are a breakdown of the initial table based on males, females, Public Aid students and Non-Public Aid students.



	Par Mean Grade		Fr
59 - 60 -	12.9		1
56 - 58	12.6	• •	6
, 53 - 55	12.2	• **	5
50 - 52	11.7	rw _A	, 12
47 - 49	11.2	. •	10
. 44 - 46	10.7	÷.	15
41 - 43	10.4	.4	19
38 - 40	9.4	ట	. 23
35 - , 37	8.4	•	× 15
32 - 34	7.7		14
29 - 31	7,1	•	, 15
26 - 28	6.5	•	9
23 - 25	6.1	•	6
20 - 22	, 5.6		6 ,
17 - 19	5.1		7
14 - 16	4.7		5
11 - 13	4.1	,	1
8 - 10	3.3		3
5 - 7	2.6	¢	•
2 - 4	2.0		173
, 	-29-	33B	**

•		San Wasan	/Malal	•	•
		Par Mean Grade	(Male)		Fr
59 - 60		12.9		, ,	• •
56 - 58	•	12.6			•
	•		*		
53 - 55		12.2	,		1
50 - 52	4,	11.7		• - •	2
47 - 49	-			• •	: , 3
47 - 49	· · · · · · · · · · · · · · · · · · ·	11.2	1	e,	
44 - 46		10.7			3
41 - 43		10.4	,	•	. 4
				\	8
38 - 40	_ ·	. 9.4	-	•	•
a 35 - 37		8.4			4
20 24	-		^		
32 - 34	***	7.7		•	1
29 - 31	•	7.1			. 4
٠.	•	,	٠		•
26 - 28	• ·	6.5	-	•	1
23 - 25		6.1			, 1
	• ,	•,			•
20 - 22	•	5.6	.′		2
17 - 19	6	5.1			1
	•		Ž.		2 2
14 - 16	•	4.7	`	•	4
11 - 13		4.1		ŧ	1
	• '				,
8 - 10		3.3		J	
′ 5 - 7	,	2.6			. •
2 - 4	•	2.0		34	· -21
		k.		4 4th-6	

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. , .	_	Par Mean Grade	(Female)	, •	Fr
59 - 60	,	12.9	* * * * * * * * * * * * * * * * * * *	٠	. 1
56 ~ 58 °	•	12.6	•	,	6
53 - 55	, a	12.2) ²⁵		5
50 - 52		11.7	,	,	10
47 - 49		11.2			7
44 - 46	•	10.7			12
41 - 43	,	, 10.4	•		15
38 - 40		9.4		·	15
35 - 37	••	8.4	* *		11
32 - 34		7.7	•		11
29 - 31	· · · · · · · · · · · · · · · · · · ·	7.1	,		11
26 - 28	· ·	6.5			8
23 - 25		6.1		i	5
20 - 22		5.6			4,
17 - 19		5.1		•	6
14 - 16	. y	4.7	·	3	3
11 - 13	•	4.1			-
8 - 10		໌ 3.3			2
5 - 7	•	2.6	, s	•	-
2 4	•	2.0	.35		132
		-31-	· · · ·		.*

		, v ,	Par Mean Grade	(PA)*	***	Fr
59 - 6 0	4	· •	12.9		•	-
56 - 58	<u> </u>		12.6	- ,	۰,	4
53 - 55	-	•	12.2			Ž
•	-	•			•	
50 - 52		í a,	11.7	•	· · · · · ·	2
47 - 49		`	11.2		•	3
44'- 46		. ,	10.7	•	••	ý 5
41 - 43		•	10.4		● Nor	7
38 - 40	•		9.4	•	gen Na	* 8
³ 35 - 37	•		8.4	, 4		4
32 - 34	-	•	7.7-	· • • • • • • • • • • • • • • • • • • •	•	3
29 - 31	,		7.1	,		2
26 - 28			6.5	* (* * * * * * * * * * * * * * * * * *		, 3
23 - 25	•	*	6.1		A	1.
20 - 22	•		5.6		-	. 1
17 - 19	-		5.1	. , .		. 2
14 - 16		,	4.7			, ••
11 - 13	,	•	4.1	F /		• •
8 - 10		•	3.3	//		. -
5 - 7			2.6	•	(•
2 - 4		-	2.0	, • 8	3 6	-
			•	7	48-	7/

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,	Par Mean (Non-Public Aid)	
	Grade	Fr
59 - 60 }	12.9	, 1
56 → 58	• 12.6.	2`
53 - 55	12.2	3
50 - 52	11.7	10
47 - 49	11.2	7
•		
44 - 46	10.7	10
41'- 43	10.4	,12
38 – 4 0	9.4	15
35 - 37	8.4	11
32 - 34	7.7	11
29 - 31	7.1	13
26 - 28	6.5	, 6 .
23 - 25	6.1	, 5
20 - 22	5.6	5
17 - 19	. 5.1	^ 5
14 - 16	4.7	•
11 - 13	4.1	1
8 - 10	3.3	3
5 - 7	2.6	-
2 - 4	2.0	$\frac{1}{122}$
	-33-	

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Arithmetic Computation Table

The following table is formulated on the raw scores of the Arithmetic Computation section (Stanford Achievement Test - Advanced Complete Battery - Forms W & Y) based on the described study group. The left hand column represents the raw score and the center column includes interpolated grade equivalency scores. The right hand column indicates the frequency of students per category with the total number of students found at the bottom of the frequency column.

The succeeding four tables are a breakdown of the initial table based on males, 'females, Public Aid students and Non-Public Aid students.

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,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	Arith Comp Grade		· Fr
38 - 39	,	12.8	`	2
36 - 37	0	12.4		4
34 - 35		12.1		• , ,
32 - 33		11.7	,	. 4
30 - 31		11.0		7 /
28 ~ 29		10.3	cv /	5
26 - 27	<u> </u>	9.8	•	. 18.
24 - 25	<u> </u>	8.9.	٠.	^ 20
22 - 23	•	8.3		15 ,
20 - 21	•	. 7.9	•	, 18
13 - 19		7.5		21
16 - 17		6.7	,	. 21
14 - 15		6.3	· · · · · ·	12
12 - 13		* 5,9		
10 - 11		5.5	.	15
8 -, 9		4.9	,	5
6 - `7		4.4		
4 - 5		, 3.8	q.	4
1 - 3	•	2.6		201
•		•	<i>7</i> 0	

	Arith Comp (!tale)	
		Fr
38 - 39	12.8	1
36 - 37	12.4	1
•	•	/
34 - 35	12.1	2
		;
32 - 33	11.7	•
30 - 31	11.0	5
•		
28 29	. 10.3	-
26 `27		,, A
20 27	9.8	•
24 - 25	8.9	'n
/ -	-	
22 - 23×	* 8.3	4
20 - 21	7.9	6
18 - 19	7.5	7 .
•		
16 - 17	6.7	4
14 - 15	6.3	2
•	-	
12 - 13	·5.9	2
• 10 - 11 م	5.5	, 5
₹		
8 - 9	4.9	- ,
, , •		1
6 - 7	4.4	• \
4 - 5	3.8	2 \
•	*	Ì
1 - 3	2.6	47
,	46	
•	▼ ************************************	

•	Arith Comp (Female) Grade	<u>Fr</u>
38 - 39	12.8	1
36 - 37	12.4	3
34 - 35	12.1	5 ,
32 - 33	11.7	4 .
30 - 31	11.0	2
28 - 29	1 10.3	5
26 - 27	9.8	.14
23 - 25	8.9	19
. 22 - 23	8.3	11
20 - 21	7.9	12
18 - 19	7.5	14
16 - 17	6.7	17
14 - 15	6.3	10
12 - 13	5.9	12
10 - 11	5.5	10
8 = 9	4.9	5
6 - 7	4.4	. 7
4 - 5	3.8	2
1 - 3	2.6	1 154

•	Arith Comp (PA)
	Grade Fr
38 - 39	12.8
36 - 37	12.4
34 - 35	12,1
. 32 – 33	11.7
30 - 31	11.0
28 - 29	10.3
26 - 27	9.8
24 - 25	8.9
22 - 23	- 8.3 . J. Ž
20 - 21	7.9
18 - 19	7.5
16 - 17	6.7
14 - 15	6.3
12 - 13	5.9
_ 10 - 11	5.5
8 - 9	4.9
6 - 7	4.4
4 - 5	3.8
1 - 3	2.6

	Arith Comp (Non-Public Aid) <u>Grade</u>	Fr
38 - 39	12.8	.1
° 36 - 37		4
24 75		_
34 - 35	12.1	6
32 - 33	11.7	1
·	21.0	
30 - 31,	0.43 	* 5
28 - 29	10.3	4.
26 - 27	9.8	8
24 - 25	8.9	14
22 - 23	8.3	13
20 - 21	7.9	14
18 - 19	7.5	16
16 - 17	6.7	17
14 - 15	6.3	10
12 - 13	5.9	10
10 - 11	5.5	15
8 - 9	4.9	4
6 - 7	4.4	. 7
1		-
4 - 5	3.8	3
1 - 3	2.6	$\frac{1}{153}$

Arithmetic Reasoning Table

The following table is formulated on the raw scores of the Arithmetic Reasoning section (Stanford Achievement Test - Advanced Complete Battery - Forms W & Y) based on the described study group. The left hand column represents the raw score and the center column includes interpolated grade equivalency scores. The right hand column indicates the frequency of students per category with the total number of students found at the bottom of the frequency column.

The succeeding four tables are a breakdown of the initial table based on the males, females, Public Aid students and Non-Public Aid students.

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	Arith Reas	
	Grade	, <u>Fr</u>
35 - 36	12.9 +	~ 3
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33 - 34	12.9 +	,1
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31 - 32	12.9 +	į
,		•
29 - 30	.12.9	i
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27 - 28	12,5	6
25 - 26	12.1	10
23 - 24	11.5	. 23
•		•
21 - 22	11.0	20
•		n
19 - 20	10.2	21
		
17 - 18		25
,	•	
15 - 16	8.2	31
	· · · · · · · · · · · · · · · · · · ·	
13 - 14	7.6	19
		` 16
11 - 12-	7.1	10
a 9 - 10	6.3	. 13
~ 9 - 10		* 20
7 - Š		, 6
, - 0	3. 0	•
5 - 6	4.5	4
	•	•
3 - 4	3.5	1
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1 - Ż	2.6	
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_		Arith Reas (Male) Grade	•	<u>Fr</u>
35 - 36		12.9 +		1 *
33 - 34	.*	12.9 +		-
31 - 32		12.9 +		1
29 - 30		12.9		/1
27 - 28		12.5	. ر	2 .
25 - 26	,	12.1		3
23 - 24	-	11.5		1 9
21 - 22	•	11.0	1	7
19 - 20	e e	10.2	٠	7
17 - 18		9.1		3 ,
15 - 16		8.2	- '	. 6
A3 - 14		7.6	4	- 1 -
11 - 12	>	; 7.1		3
9 - 10		6.3		2
7 - 8.		5.6		2
5 - 6	•	4.5		
3 - 4	- -	3.5		-
1 - 2	4	2.6	•	<u>-</u>
	6 2			

,	_,	Arith Reas (Female) Grade	٠	Fr
35 - 36		12.9 +		2
33 - 34		12.9.+	·	•
31 - 32	* *	12.9 +		-
29 - 30		12.9		_ \
27 - 28	· -	. 12.5		4
25 - 26	•	12,5		7
23 - 24		12.1		. 14
21 - 22	·	11.5		13
19 - 20		11.0		* 14
17 - 18		10.2		22
15 - 16	3	9.1	ζ	25-
13 - 14		8.2	•	18
11 - 12		7.6		13 °
9 - 10	_	7.1		11
7 - 8	_	6.3		4
5 - 6	.	* 5.6	•	4
3 - 4	•	4.5	,	1
1 - 2	•	2.6	9.	153

	•	Arith Reas (PA) Grade	•	Fr
35 - 36	•	12.9 +	*	1
33 - 34		12.9.+		
31 - 32	· ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	12.9 +	• •	-
29 - 30		12.9		-
- 27 - 28		127		1
25 - 26	•	12.1	•	2
23 - 24		11.5	. •	2
21 - 22		11.0		8
19 - 20		10.2	•	3
17 - 18		9.1	•	12
15 - 16		8.2		6
13 - 14		7.6		4
11 - 12		7.1	•	· ,
9 - 10	<u>-</u>	6.3		2
7 - 8	* **	5.6		1
5 - 6)	. 4.5	4	-
3 - 4		3.5	,	-
1 - 2	•	2.6	,	48

, '	,	Arith	Reas Grade	(Non-Public Aid)	•	<u>Fr</u>
35 - 36	à	•	12.9	+		2
33 - 34	•	•	12.9		٠	1
31 - 32		v	12.9	•		1
29 - 30	_ *		12.59	, ,		1,
27 - 28	•	•	12.5	-	~	5
25 - 26		• ,	12.1		· ·	8
23 - 24		•	11.5	.		21
21 - 22		•	11.0)	v	12
19 - 20			10.2		· · · · · ·	18
17 - 18		•	9.1	L	•	13
15 - 16			8.2			25
`13 - 14	e e		7.0		» · · ·	15
11 - 12		1,	7.:		•	10
9 ~ 10			6.	•	٠.,	11
7 - 8	<i>:</i>		9.	6 .	,	5
5 - 6	- •	•	4.	5	•	4
3 - 4	•	(m.)	3.	5		1
1 - 2		1	2.	6	÷,	153

GED Score Table

The following table is formulated on the standard scores of the General Educational Developmental (GED) exam based on the described group. The left hand column represents the total score of five sub-tests and the frequency is found in the right hand column. The total number of students is in the lower right hand corner.

The succeeding four tables are a breakdown of the initial table "based on the males, females, Public Aid students and Non-Public Aid students.



		Fr
309 - 313		2
304 - 308		-
299 - 303		2 -
294 - 298	•	. 2
, 289 - 293		5
284 – 288	•	. 4
279 - 283		2
274 - 278		7
269 - 273		. 8
264 - 268		3
259 - 263		8
254 - 258		13
249 - 253		, 12
244 - 248		, 11
239 - 243		12 «
234 = 238		21
229 - 233		20
225 - 228	•	69 201

GED Score (Male)

309 - 313

304 - 308

299 - ,303

294 - 298

289 - 293

284 - 288

279 - 283

274 - 278

269 - 273

. 264 - 268

\259 - 263

254 **-** 258

249 - 253

244 - 248

239 - 243

234 - 238

229 - 233

225 - 228













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299 - 303				•	•	. '2
294 - 298				•	y	1
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284 - 288	` `				•	. 4
279 - 283		*	e e	•	٠.	2 .
274 - 278	, •			,	.^	5
269 - 273		4	•	. [,	` 6
264 - 268		ſ	•	•		, 3
259 - 263 → p			-	· · · ·	≪ •	6
254 - 258					•	, 9 ,

249 - 253

244 248

239 - 243

234 - 238

279 - 233

225 - 228

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	•	
٠	GED Score (PA)	Fr
200 - 212	· ·	
309 - 313	1.	_
304 - 308	•	-
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299 - 303	· · ·	
294 - 298		1
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289 - 298	•	2
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284 - 288	•	
279 - 283		- 1
	•	
274 - 278		1
269 - 273		2
264 - 268		1
259 - 263		·:
,	-	
254 - 258	*	2
249 - 253	- Company of the Comp	4
247 - 203		
244 - 246		· з
200 242	• •	1
239 - 243		•
238 - 41		4
229 - 233	,	4
225 - 228		22 48
	•	48

•	GED Score (Non-Public Aid)	·
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309 - 313		· 2
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304 - 308		• · · · · · · · · · · · · · · · · · · ·
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299 - 303		2
204 200		•
294 - 298	_	1
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284 - 288		4
al.	•	
279 - 283		- 1
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274 - 278		6
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269 - 273		6
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264 - 268		. 2
259 - 263		8
259 - 205		5
254 - 258	•	11
249 - 253		. 8
° 244 - 248		8
i	•	•
239 - 243		11
		1.0
234 - 238		. 17
229 - 233		, 16
229 - 233		,,
225 - 228	ı	47
		$\frac{47}{153}$.

Hours in Class

The following table is formulated on the total number of hours spent in the classroom at our Center, and it is based on the described group. The left hand column represents the number of hours spent in the classroom, and the right hand column is the number of students per category. The total number of students is shown in the lower right hand corner.

The succeeding four tables are a breakdown of the initial table based on males, females, Public Aid students and Non-Public Aid students.

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570	- 610	Hours in Class (Male) Fr
549	- 578	
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519	- 548	
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489	- 518	
459	- 488	•
429	- 458	
399	- 438	
	- 398	
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	- 338	
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249	- 278	
219	- 248	
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189	- 218	
159	- 188	. 1
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39	- 68	19
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579 - 61 0		Hours in	Class (Fe	emale)		•	Fr 1
549 - 578		· ·	٠		•	•	-
519 - 548	ı	•,			,		-
489 - 518			•		.	rē	1
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399 - 428	•	-			•	,	`1
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309 - 33	i					ż	4
279 - 30	3	ı			•		-
249 - 27	3	•,		•	-	,	1
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189 - 21	3	,	•				1
159 - 18	8						7
129 - 15	8			,	4 *		7
99 - 12	8		ı				10
69 - 9	8 ø			•	υ		18
39 - 6	8	· · · · · · · · · · · · · · · · · · ·			٠,		42
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579 - 610 -	Hours in Class (PA)	Fr 1
549 - 578		-
519 - 548		~
489 - 518		1
459 - 488		-
428 - 458		• -
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399 - 428	•	71
369 - 398		-
339 - 368		, -
309 - 338		-
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279 - 308		2
249 - 378	•	
219 - 248		4
189 - 218	•	1 .
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159 - 188	-	- • ,
· 129 - 158		4
99 - 128		- 8
69 - 98		7
39 - 68		11
-	·	
9 - 38		5
1 - 8	~ 60	48

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-			in Class	(Non-Publish sin	. 12.31	Fr
579 - 610	·	nours	In Class	(Non-Public	Ald)	-
549 - 578	•			-•		-
519 - 548	b o		-			_
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459 - 488	>	,		• <	· *	- ,
428 - 458	-		•			_
420 - 430		+		-		•
399 - 428	-		·	;		-
369 - 398	•		F			2
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339 - 368	_			· •	à	
309 - 338				~	•	4
279 - 308	1				•	-
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249 - 278	-					-
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69 - 98				·		13
39 - 68						50
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Language Usage

The following table is formulated on the Language section, subsection Language Usage, (Stanford Achievement Test, Advanced Complete Battery, Forms W & Y), based on the described study group. The left hand column represents the raw score and the right hand column indicates the frequency of students per category. The total number of students is found in the lower right hand column.

The succeeding four tables are a breakdown of the initial table based on males, females, Public Aid students and Non-Public Aid students.



Language

34 - 35

32 - 33

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Language (Male)

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Language (Female)

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Language (PA).

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(Non-Public Aid) Language

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32 - 33 -

30 - 31 28 - 29,

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22 - 23 26

20 20 - 21

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13 16 - 17

8 14 - 15

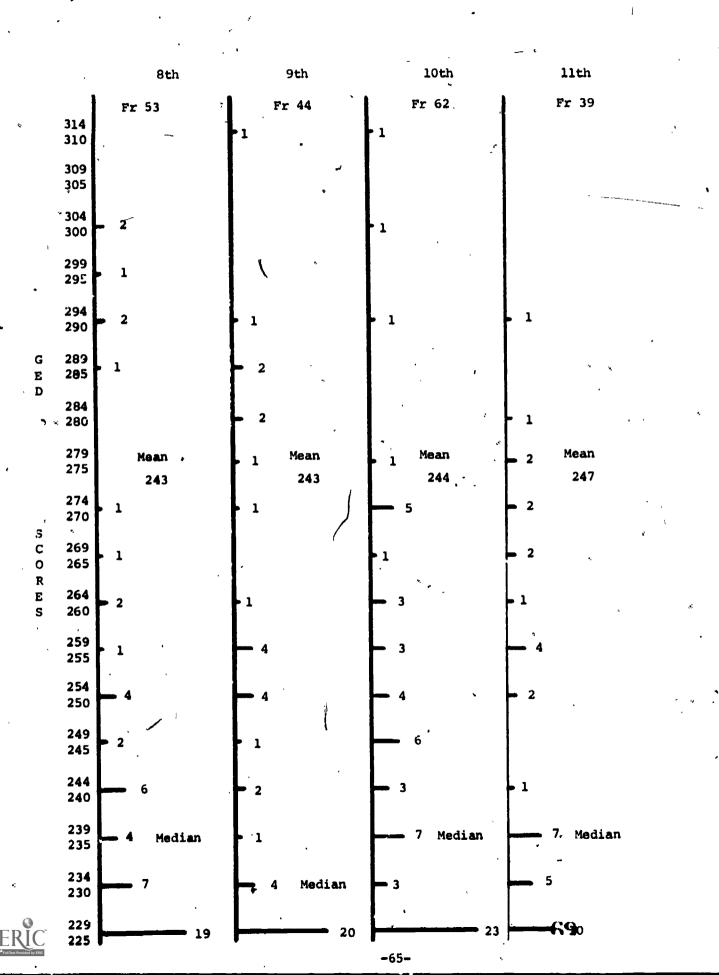
12 - 13

10 - 11

Grade Completed

The following table is formulated on the standard scores of the GED exam comparing the average (Mean-Median) scores by grade level completed in school. The left hand column is the standard score made on the GED. The columns represent 8th, 9th, 10th, and 11th grade completions respectively. The total number of the sample per grade is found at the top of each column. The median scores are found typed at the interval in which they fall.

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SCATTERGRAMS AND CORRELATION

The following section of the handbook is composed of scattergrams.

The purpose of the diagram is to determine what factors are positively correlated. By knowing the correlation of two factors, we are able to seedict the probabilities of success in passing the GED.

It must be remembered that it is easier to predict probabilities of groups as opposed to the individual.

For example:

If we take two factors such as age versus hours and plot a scattergram, we are trying to find out if the age is a detriment as it increases or an advantage as it decreases. The first chart starts with age in the left hand column with the lowest age at the bottom and the highest age at the top. The number of hours in class is plotted from low to high and left to right respectively. If one assumes that with an increase in age it is more difficult to learn and conversely easier to learn when younger, the following would appear on a scattergram. A line would be formed from the lower left hand corner of the graph to the upper right hand corner of the graph. With the enclosed scattergrams the dotted lines represent what is called a perfect correlation. This would then mean that as a person's age increases he would have more difficulty learning and therefore require more time before passing the GED exam. If the opposite were found to be true, a dotted line would be found reaching from the upper left hand corner to the lower right hand corner of the graph. This would mean that a person of greater age would learn in fewer hours than a person of a



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younger age.

A perfect correlation of 1.0 would be obtained if all the scores fell directly on these aforementioned dotted lines. However, a perfect 1.0 correlation is a statistical impossibility (improbability). In this section we are not going to speak in terms of a correlation score but will rely on the tendency of a line to run from lower left to upper right or upper left to lower right. If the plotted line tends to run horizontally across the scattergram, then there would be little correlation between the two factors; such as age versus hours.

In The meaning of correlation: When measures of two traits are secured for each individual in a group, it may frequently be noted that the two measures for any individual tend to have roughly the same relative position in their respective distributions; that is, individuals are above average in one trait tend also to be well above average in the other, those below average in one tend to be correspondingly below average in the other; and those at or near the average in one tend also to be at or near the average in the other. When this is true, we say that the two traits (or measures) are 'positively related' for the group in questions, or that they show a positive correlation."

The reader should, therefore, be looking for plotted lines running from lower left to upper right or plotted lines running from upper left to lower right. Lines, I repeat, which have a tendency to run horizontally will show a lack of correlation between the two factors.

The purpose of the above explanation is to assist those who are un-

Lindquist, E. F. A First Course in Statistics. Cambridge, Massachusetts: The Riverside Press, (1942) P. 153



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Scattergram #1

'Age Vs Hours

The left hand column represents the ages of students in the study. The top vorizontal scores represent the number of hours spent in class by the respective students prior to achieving the GED exam.

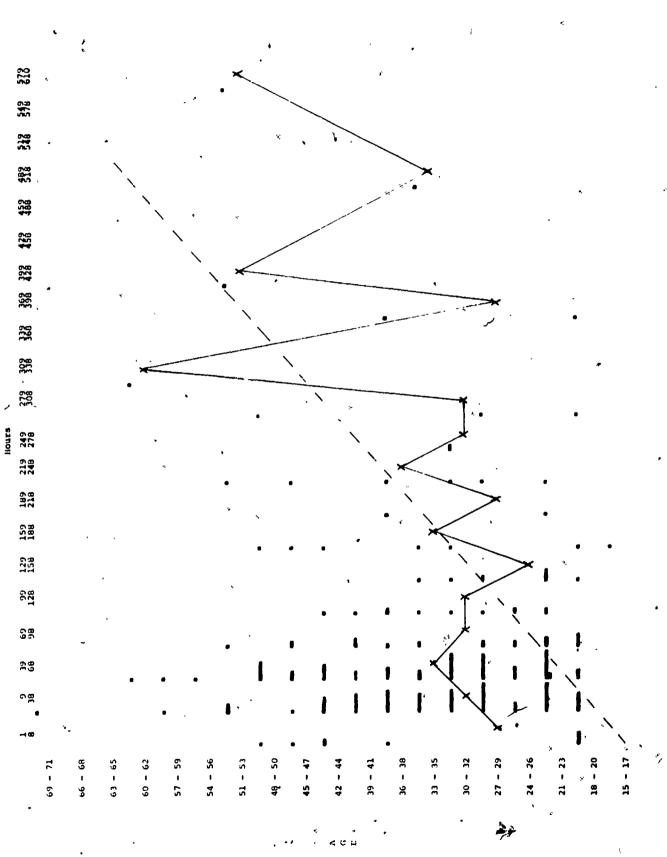
Our attempt is to determine whether there is a correlation between the age of a student, and the number of hours spent in successfully completing the exam.

The writer has quite often been told by clients that "You can't teach, an old dog new tricks", "I'm too old to learn", "It's been so long since I was in school". Their assumption is that they are too old to learn. Consequently their assumption would mean that the number of hours spent in study would increase with age.

If the hours increase with age, a diagonal line would be formed from lower left to upper right. Conversely, if the opposite were true, a line would develop from upper left to lower right.

The solid line formed on this particular graph runs on a relatively horizontal plane, indicating little correlation between age and hours. Far to the right of the scale, there are sharp rises in the graph. However, the number of students on this portion of the scale is inadequate and they would be classified statistically unsound compared to the total scale.





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Age Vs GED Score

Scattergram #2

The left hand column represents the ages of students in the study. The top horizontal scores represent the total standard score obtained by the respective students on the GDD exam.

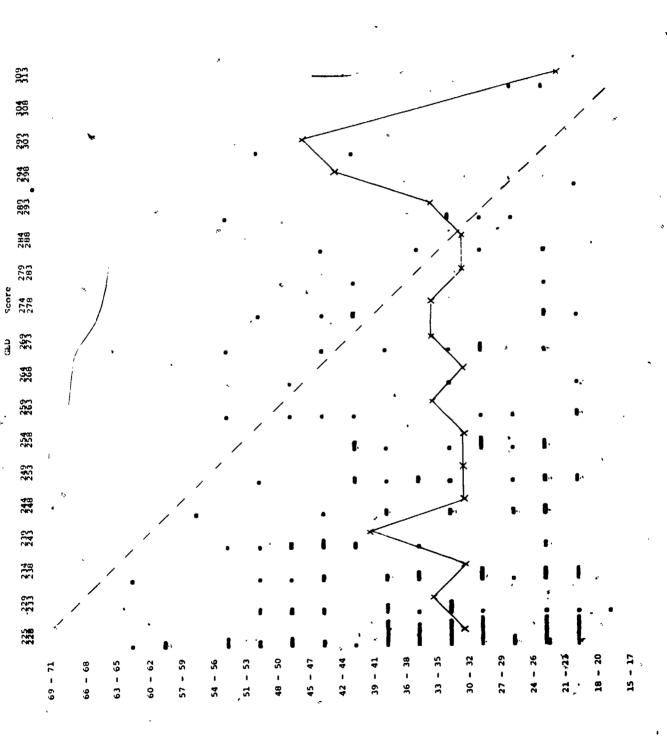
Our attempt is to determine whether there is a correlation between the age of a student and his or her total score.

If one presumes that an older person would score lower on the GED than a younger person, a dotted diagonal line would be formed from the upper left to lower right corners of the graph. (This line is drawn on the enclosed graph).

The solid line formed on this graph runs on a relatively horizontal plane indicating little correlation between age and GED score. To the right hand side of the graph, the frequency of scores becomes adequate and statistically unsound.

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Scattergram #3

Age Vs Arithmetic Computation

The left hand column represents the ages of students in the study. The top horizontal column represents the raw score on the Arithmetic Computation section of the Stanford Test previously described.

In this case if the samples followed the dotted line, an increase of age would result in an increase of computation ability.

The solid line in this case has a tendency to flow from upper left to lower right diagonally. This would tend to indicate a correlation of higher computation scores resulting from a younger age. Two factors must, however, be considered: (1) The line is relatively horizontal to indicate little correlation. (2) Experience with scattergrams showing scores spread throughout the graph indicate poor correlation.

The degree to which a correlation exists could only be determined by calculating a correlation coefficient. This will not be done in this study. Our purose is to obtain a general idea regarding what factors appear to have significance.

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Age Vs SRA

Scattergram #4

The left hand column represents the ages of students in the study. The top horizontal column represents the SRA reading test raw score. The dotted line represents the general area about which scores would cluster if increased age were directly proportional to increasing SRA scores.

Please note that samples below SRA scores of 64 are relatively insignificant. To read this graph we note the general tendency of the solid line within the area of larger samples.

Once again the plotted solid line tends to run horizontally and scores spread vertically. We would therefore conclude that there is no significant direct relationship between age and reading ability.

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Scattergram #5 SRA Vs Arithmetic Computation

The left hand column represents the raw score obtained on the SRA reading test. The top horizontal column represents the raw scores on the Stanford Arithmetic Computation sub test.

In this case the dotted diagonal line would indicate a high correlation between reading and arithmetic computation if scores generally fell on or near it.

Note that there is a tendency for reading scores to increase with Arithmetic Computation. The plotted solid line has a high tendency to flow from lower left to upper right. Also note that the scores, in general, cluster diagonally from lower left to upper right.

One would therefore assume that a significant correlation exists between these two factors.

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Scattergram #6

SRA Vs Arithmetic Reasoning

The left hand column represents the raw SRA reading score while the top horizontal column represents the Stanford Arithmetic Reasoning sub test raw score.

A dotted diagonal line from lower left to upper-right is drawn to indicate the highest possible correlation between SRA reading and Arithmetic Reasoning.

The plotted solid line indicates a, tendency for the two scores to show a high correlation. Also one should observe heavy grouping from lower left to upper right.

A conclusion that a high correlation exists between the two factors would not be erroneous.

One could probably disregard the left and right hand portions of the solid line due to the lack of sample scores.

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4 28 - 60 55 - 57 52 - 54 43 - 45_ 37 - 39 73 - 75 70 - 72 64 - 66 61 - 63 49 - 51 40 - 42 82 - 84 76 - 78 69 - 29 85 - 87 19 - 61

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SRA Vs GED Scores

- Scattergram #?

The left hand column again represents SRA raw reading scores while the top horizontal column represents GED standard scores. Again the dotted diagonal line is a visual representation of perfect correlation.

The plotted solid line indicates a tendency for the two scores to show a high correlation. Again one can observe heavy grouping from lower left to upper right as in the previous graph.

A conclusion that a high correlation exists between the two factors would be correct.

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Scattergram . #8

SRA Vs Hours

The left hand column represents SRA raw reading scores while the top horizontal column represents the number of hours spent in class prior to completion of the GED exam. The dotted line indicates a theoretical perfect correlation between these two factors.

Consequently, if grouping follows the dotted line, the lower reading score would result in students spending more hours in study.

If one notes the plotted line, and total grouping, one observes that a correlation exists between the two factors. An assumption that a correlation exists would not be erroneous, however, the degree of correlation is now known but can be calculated.

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GED Vs Hours

Scattergram #9

The left hand column represents the total GED standard scores. The top horizontal column represents the number of hours spent in class prior to completion of the GED exam. The dotted line indicates a theoretically perfect correlation coefficient between the two factors.

By following the plotted solid line; there appears to be a correlation. The degree of this correlation is unknown. This would tend to show that the higher a person's score; the fewer number of hours would be needed to pass the exam.

Also note a group of scores showing a tendency towards grouping in the opposite direction. This might tend to indicate that those scoring above 249 on the GED who spend in excess of 59 hours gradually improve on the GED. This fact is circled and would require additional data.

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Hours

Scattergram #10

GED Vs Language

The left hand column represents the total GED standard scores. The top horizontal column represents the Language Usage raw score obtained from the Stanford Achievement Test. The dotted line indicates a perfect correlation between these factors.

Both the grouping and the solid plotted line appear to indicate a high correlation between the included data.

The assumption would then be that the higher one's Language Usage score; the higher one would score on the GED exam.

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SRA Vs Language

Scattergram #11

The left hand column represents the SRA reading test raw score, while the top horizontal column represents the raw score on Language Usage of the Stanford Test.

The plotted diagonal line represents a theoretical perfect correlation. Again both grouping and the plotted solid line indicate a significant correlation. In this case the correlation appears very high.

Of course, it would then follow that an ability in Language Usage would probably be nearly synonymous with reading comprehension.

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Scattergram #12

Age Vs Language

The left hand column represents ages of students contained in the study. The top horizontal column contains the raw scores in Language Usage obtained by these same students.

A plotted dotted diagonal line would represent a perfect correlation for both factors if the scores fell on said lines.

The plotted solid line and the grouping of scores indicate that a correlation does not exist either positively or negatively between the factors of age and Language Usage.

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Summary

The original intent of this study was to attempt to discover what factors are important for passing the GED exam. We hoped to substantiate or disprove our observational beliefs gathered by experience. Working on this premise we hoped to uncover information that would assist us in helping adult students.

A secondary intent was to gather some evidence which might assist other programs while keying off additional studies that would delve deeper into cause and effect relationships of adult learning.

By no stretch of the imagination do we feel that we have solved any major problems of these adults. Only the surface has been scratched. We believe that the enclosed data are a beginning where information is difficult to find. A further study will be made on the same factors, as they relate to students who fail the GED exam.

Age tables have indicated where the preponderence of students will fall; grade tables then indicate the last year of school completed and numerical comparisons between grades. SRA reading and Paragraph Meaning pages also give us range and numerical considerations. Arithmetic computation and Reasoning tables indicate range and modal differences when compared with one another. We notice large frequencies on the lower portion of the range for GED scores and bi-modal peaks for hours spent in classes. Lastly we have charted Language Usage scores which resulted in a tendency towards a bell shaped curve. It is extremely interesting to note the small differences in GED scores when compared with last grades completed.

The authors will not speculate as to the causes of the frequency distributions, but we leave this to the reader. The reader may then couple this data with his own experience to form his own conclusion. It would be very interesting to gather counselors and teachers in a group to discuss the causes shown by these distributions.

Within the scattergrams we believe some proof exists that age is not relevant to GED success. Scattergram correlations on age were horizontal and scores were scattered.

The indication that an apparent high positive correlation exists between Reading and Arithmetic Computation was surprising to one author but not the other. The correlation between Reading and Arithmetic Reasoning, of course, was not surprising.

The highest correlation appears to exist between Language Usage and Reading.

The extent to which positive correlations exist should be calculated. This will, of course, not be done due to time. Our purpose was to locate possible correlations and later proceed with additional study.



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We must always remember that the enclosed data can predict GED success for groups rather than for individuals. We have found that the psychology of a student is a predominant factor for GED success.